

MS3124: GLOBAL SUPPLY CHAIN MANAGEMENT

Effective Term

Semester B 2024/25

Part I Course Overview

Course Title

Global Supply Chain Management

Subject Code

MS - Department of Decision Analytics and Operations

Course Number

3124

Academic Unit

Department of Decision Analytics and Operations (DAOS)

College/School

College of Business (CB)

Course Duration

One Semester

Credit Units

3

Level

B1, B2, B3, B4 - Bachelor's Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

Nil

Exclusive Courses

Nil

Part II Course Details

Abstract

Provide students with a basic understanding of supply chain management concepts and build their appreciation of the importance of supply chain to business success; Equip students with the fundamental approaches and tools to support practical and supply chain decision-making; Expose students to the best practices and key trends of real-life supply chains and introduce them to the emergence of global supply chains.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Define the scope and roles of supply chain management and identify the major sources of challenges in supply chain management	20	x		
2	Align appropriate supply chain models and strategies with product characteristics	30	x		
3	Align appropriate performance measures with organizational and customer needs	20	x		
4	Apply information technology to solve issues in supply chain coordination	30		x	x

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

LTAs		Brief Description	CILO No.	Hours/week (if applicable)
1	Lecture	Students will attend and participate in lectures to gain a comprehensive understanding of the scope and roles of supply chain management and to identify major sources of challenges in supply chain management.	1, 2, 3, 4	
2	Review Questions	Students will answer review questions at the end of each lecture to reinforce the understanding of supply chain management concepts and to practice identifying challenges.	2, 3, 4	

3	Peer Discussion	Students will work on a group project that requires researching and presenting on emerging trends and technologies in supply chain management, fostering self-directed learning and staying updated with industry advancements.	2, 3, 4	
4	In-class Exercises/ activities	Students will participate in group discussions and case studies to assess and align performance measures with organizational and customer needs, fostering critical thinking and teamwork skills.	1, 2, 3, 4	

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	In-class Exercises Students in groups discuss and share ideas on applying their learned key concepts / supply chain models into the real-world business problems and give recommendations for improvement.	1, 2, 3, 4	30	
2	Group Project Students in groups are required to examine the key challenges and the supply chain issues of a selected company with global presence. They need to recommend ways to improve its competitiveness.	1, 2, 4	20	
3	Quizzes Students are required to attempt multiple quizzes individually to test their knowledge and ability on the subject matter at different stages during the course.	1, 2, 3, 4	50	

Continuous Assessment (%)

100

Examination (%)

0

Assessment Rubrics (AR)

Assessment Task

In-class Exercises

Excellent (A+, A, A-)

Strong evidence of grasping managerial issues on coordinating product, information, and financial flows in supply chain as outlined in CILOs

Good (B+, B, B-)

Evidence of grasping managerial issues on coordinating product, information, and financial flows in supply chain as outlined in CILOs

Fair (C+, C, C-)

Some evidence of grasping managerial issues on coordinating product, information, and financial flows in supply chain as outlined in CILOs

Marginal (D)

Sufficient familiarity with the managerial issues on coordinating product, information, and financial flows in supply chain as outlined in CILOs

Failure (F)

Little evidence of grasping managerial issues on coordinating product, information, and financial flows in supply chain as outlined in CILOs

Assessment Task

Group Project

Excellent (A+, A, A-)

Strong evidence of showing familiarity with key concepts and definitions. Clearly and correctly structures most critical points and makes important contributions to the assigned questions or problems. Critically discusses issues and draws most relevant implications to apply daily life examples of service experiences. Critical problem solving skills and excellent presentation skills are expected.

Good (B+, B, B-)

Evidence of showing familiarity with key concepts and definitions. Clearly and correctly state some critical points and contributions of the assigned questions or problems. Critically discuss issues and draw some relevant implications to apply daily life examples of service experiences. Critical problem solving skills and good presentation skills are expected.

Fair (C+, C, C-)

Evidence of showing adequate review of literature and key concepts. Understanding of the subject, ability to develop solutions to simple and basic problems in the assigned questions and problems.

Marginal (D)

State a few critical points and marginal contributions of the assigned questions and problems.

Failure (F)

State no critical points and no contributions of the assigned questions and problems.

Assessment Task

Quizzes

Excellent (A+, A, A-)

Strong evidence of original thinking; good organization, capacity to analyse and synthesize; superior grasp of subject matter; evidence of extensive knowledge base.

Good (B+, B, B-)

Evidence of grasp of subject, some evidence of critical capacity and analytic ability; reasonable understanding of issues; evidence of familiarity with literature.

Fair (C+, C, C-)

Student who is profiting from the university experience; understanding of the subject; ability to develop solutions to simple problems in the material.

Marginal (D)

Sufficient familiarity with the subject matter to enable the student to progress without repeating the course.

Failure (F)

Little evidence of familiarity with the subject matter; weakness in critical and analytic skills; limited or irrelevant use of literature.

Part III Other Information

Keyword Syllabus

Introduction to Supply Chain Management (SCM)

- * Scope of supply chain management
- * Roles and functions of Logistics in supply chains
- * Global dimensions of supply chains
- * Latest trends and development of supply chain management

Supply Chain Relationships

- * Collaborative relationships
- * 3rd party logistics

Supply Chain Performance Measurements

- * Dimensions of supply chain performance metrics
- * Supply Chain Financial impacts

Supply Chain Technology

- * Role of information in supply chain
- * Supply Chain Technology implementation

Procurement and Production

- * Supplier selection & procurement strategies
- * Balance supply and demand
- * Forecasting and replenishment
- * Types of production operations and production planning

Order Management

- * Customer relationship management
- * Customer service levels and order fulfilment
- * Customer service accommodation strategies

Inventory & Warehouse Management

- * Inventory costs and control
- * Warehouse operations management
- * Inventory models and strategies

Network Analysis and Design

- * Facility location planning and analysis
- * Network design process and implementation

Sustainability, strategic challenges and supply chain strategies

- * Types of supply chain strategies
- * Supply chain transformation

Reading List**Compulsory Readings**

Title	
1	Supply Chain Logistics Management Donald Bowersox, David Closs, M. Bixby Cooper, John Bowersox, Latest Edition

Additional Readings

Title	
1	John J. Coyle, C John Langley, Robert A. Novack, Brian Gibson, Supply Chain Management: A Logistics Perspective, Latest Edition, Cengage.
2	Martin Christopher, Logistics & Supply Chain Management, Latest Edition, Pearson Education.
3	Paul Myerson, Lean Supply Chain and Logistics Management, McGraw-Hill Education, Latest Edition.